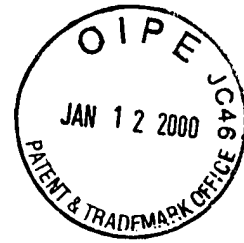


Current Claims for
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(9001-0016.01)



37. (Amended) A chimeric protein comprising a leukotoxin polypeptide that activates helper T-cells, coupled to a selected peptide hormone which is not a cytokine, wherein said leukotoxin polypeptide is an RTX leukotoxin from a bacterium selected from the group consisting of *Pasteurella haemolytica*, *E. coli* and *Actinobacillus pleuropneumoniae*.

40. The chimeric protein of claim 37, wherein said leukotoxin polypeptide is coupled to gonadotropin releasing hormone (GnRH), or an epitope thereof.

41. The chimeric protein of claim 40, comprising the amino acid sequence of SEQ ID NO:12.

44. The chimeric protein of claim 37, wherein the leukotoxin polypeptide is a *Pasteurella haemolytica* leukotoxin polypeptide.

45. The chimeric protein of claim 40, wherein the leukotoxin polypeptide is a *Pasteurella haemolytica* leukotoxin polypeptide.